

THE ABSTRACT

Abstract of the Disclosure

A slider unit having built in a moving-coil linear motor ensuring much-high propulsion, ~~with even~~ is kept slim in ~~the overall height to the extent comparative to the slider units ever used.~~ A moving-coil assembly is made slim in construction, with even-high in-stiffness, and. ~~The moving-coil assembly~~ is composed of an iron core of platy-configuration, and at least one set of three-phase armature coils wound around the iron core in the form of flat rectangular configuration in a plane intersecting the sliding direction. ~~As there are~~ Comparatively more coil sides of the armature coils ~~contributing~~ contribute to the high propulsion, ~~compared with a pole width in the moving direction of the field magnets, the high propulsion may be realized.~~ Moreover, ~~since like~~ Like poles on either field magnet are placed in opposition to each other across the air gap, whereby the magnetic attraction is cancelled to reduce the load on the linear motion guide unit, ~~so that the table is allowed withstanding much load capacity.~~